

CLAIMS

What is claimed is:

1. (currently amended) A calculator specially adapted to perform calculations and conversions of dimensional data for making home improvement calculations comprising in combination: means responsive to a specific user key for calculating data related to one of gravel, [concrete,] tile, [brick, block,] 4×8 sheet, paint, wallpaper, stud and roofing bundle calculations, and; means for displaying said data related to one of gravel, concrete, tile, brick, block, 4×8 sheet, paint, wallpaper, stud and roofing bundle calculations.
2. (original) The calculator of claim 1 wherein said means for determining data related to said gravel calculations allows for the conversion of a cubic dimension into a weight measurement based on a preset weight to volume ratio.
3. (original) The calculator of claim 1 wherein said means for determining data related to said gravel calculations allows for the conversion of a weight measurement into a dimensional measurement based on a preset weight to volume ratio.
4. (original) The calculator of claim 1 wherein said means for determining data related to said gravel calculations allows for the conversion of a cubic dimension into a weight measurement based on a user defined weight to volume ratio.

5. (original) The calculator of claim 1 wherein said means for determining data related to said gravel calculations allows for the conversion of a weight measurement into a cubic dimension based on a user defined weight to volume ratio.
6. (original) The calculator of claim 1 wherein said means for determining data related to said gravel calculations allows for the conversion of a cubic dimension into a weight measurement based on a weight to volume ratio chosen from a user selectable pre-set scrollable list.
7. (original) The calculator of claim 1 wherein said means for determining data related to said gravel calculations allows for the conversion of a weight measurement into a cubic dimension based on a weight to volume ratio chosen from a user selectable pre-set scrollable list.
8. (original) The calculator of claim 1 wherein said means for determining data related to said gravel calculations allows for the conversion of a cubic dimension into a weight measurement based on a weight to volume ratio chosen from a user selectable user set scrollable list.
9. (original) The calculator of claim 1 wherein said means for determining data related to said gravel calculations allows for the conversion of a weight measurement into a cubic dimension based on a weight to volume ratio chosen from a user selectable pre-set scrollable list.
10. (cancelled herein)

11. (cancelled herein)
12. (cancelled herein)
13. (original) The calculator of claim 1 wherein said means for determining data related to said tile calculations allows for the conversion of an area dimension into a number of tiles.
14. (original) The calculator of claim 1 wherein said means for determining data related to said tile calculations allows for the conversion of a number of tiles into an area dimension.
15. (original) The calculator of claim 1 wherein said means for determining data related to said tile calculations allows for the conversion of an area dimension into a number of tiles based on a scrollable list of tile sizes.
16. (original) The calculator of claim 1 wherein said means for determining data related to said tile calculations allows for the conversion of a number of tiles into an area dimension based on a scrollable list of tile sizes.
17. (cancelled herein)
18. (cancelled herein)
19. (cancelled herein)
20. (cancelled herein)
21. (cancelled herein)

22. (cancelled herein)
23. (original) The calculator of claim 1 wherein said means for determining data related to said 4×8 sheet calculations allows for the conversion of a number of 4×8 sheets into an area dimension.
24. (original) The calculator of claim 1 wherein said means for determining data related to said 4×8 sheet calculations allows for the conversion of an area dimension into a number of 4×8 sheets.
25. (original) The calculator of claim 1 wherein said means for determining data related to said 4×8 sheet calculations allows for the conversion of a linear dimension into a number of 4×8 sheets.
26. (original) The calculator of claim 1 wherein said means for determining data related to said paint calculations allows for the conversion of a number of gallons of paint into an area dimension.
27. (original) The calculator of claim 1 wherein said means for determining data related to said paint calculations allows for the conversion of an area dimension into a number of gallons.
28. (original) The calculator of claim 1 wherein said means for determining data related to said wallpaper calculations allows for the conversion of a number of rolls of wallpaper into an area dimension.

29. (original) The calculator of claim 1 wherein said means for determining data related to said wallpaper calculations allows for the conversion of an area dimension into a number of rolls of wallpaper.
30. (original) The calculator of claim 1 wherein said means for determining data related to said stud calculations allows for the conversion of a linear dimension into a number of studs.
31. (original) The calculator of claim 1 wherein said means for determining data related to said stud calculations allows for the conversion of a number of studs into a linear dimension.
32. (original) The calculator of claim 1 wherein said means for determining data related to said roofing bundle calculations allows for the conversion of an area dimension into a number of roofing bundles.
33. (original) The calculator of claim 1 wherein said means for determining data related to said roofing bundle calculations allows for the conversion of a number of roofing bundles into an area dimension.

34. (new) A calculator for making home improvement calculations comprising:
- (A) input means for allowing a user to enter at least one dimensional number;
 - (B) function means for allowing the user to select a gravel calculation;
 - (C) conversion means for automatically converting the dimensional number into a number representing a quantity of gravel, the conversion means being initiated by the function means; and
 - (D) display means for displaying said quantity of gravel.
35. (new) The calculator of claim 34 wherein the conversion means uses either a pre-set or user defined conversion factor.
36. (new) The calculator of claim 34 wherein the conversion means uses a weight to volume ratio chosen from a user selectable scrollable list.
37. (new) The calculator of claim 34 wherein the display means comprises means for displaying a symbol representing a unit of the quantity of gravel.

38. (new) A calculator for making home improvement calculations comprising:
- (A) input means for allowing a user to enter at least one dimensional number;
 - (B) function means for allowing a user to select a concrete calculation function;
 - (C) conversion means for automatically converting the dimensional number into a number representing a quantity of bags of cement, the conversion means being initiated by the function means; and
 - (D) display means for displaying the quantity of bags of cement.
39. (new) The calculator of claim 38 wherein the conversion means uses either a pre-set or user defined conversion factor.
40. (new) The calculator of claim 38 wherein the display means comprises means for displaying a symbol representing a unit of the quantity of bags of cement.
41. (new) The calculator of claim 38 wherein the conversion means converts the dimensional number into a number representing a quantity of bags of cement and at least one of a quantity of sand, a quantity of aggregate and a quantity of water.
42. (new) The calculator of claim 41 wherein the display means further comprises means for displaying the at least one of a quantity of sand, a quantity of aggregate and a quantity of water.

43. (new) The calculator of claim 42 wherein the display means displays at least one of the quantity of sand, the quantity of aggregate and the quantity of water in a scrollable list.
44. (new) The calculator of claim 42 wherein the display means displays a unit of at least one of the quantity of bags of cement and at least one of a unit of a quantity of sand, a unit of a quantity of aggregate and a unit of a quantity of water.

45. (new) A calculator for making home improvement calculations comprising:
- (A) input means for allowing a user to enter at least one dimensional number;
 - (B) function means for allowing the user to select a tile calculation function;
 - (C) conversion means for automatically converting the dimensional number into a number representing a quantity of tiles, the conversion means being initiated by the function means; and
 - (D) display means for displaying the quantity of tiles.
46. (new) The calculator of claim 45 wherein the dimension comprises an area.
47. (new) The calculator of claim 45 wherein the conversion means uses a tile size selected from a scrollable list of tile sizes.
48. (new) The calculator of claim 45 wherein the display means provides a scrollable list of quantities of tiles dependent on a list of tile sizes.
49. (new) The calculator of claim 45 wherein the conversion means provides an allowance for grout.
50. (new) The calculator of claim 45 wherein the display means comprises means for displaying a unit of the quantity of tiles.

51. (new) A calculator for making home improvement calculations comprising:
 - (A) input means for allowing a user to input at least one dimensional number;
 - (B) function means for allowing a user to select a brick calculation function;
 - (C) conversion means for automatically converting the dimensional number into a number representing a quantity of face bricks and a number representing a quantity of paver bricks; and
 - (D) display means for displaying the quantity of face bricks and the quantity of paver bricks.
52. (new) The calculator of claim 51 wherein the conversion means uses a preset or user set dimension of a brick.
53. (new) The calculator of claim 51 wherein the display means provides a scrollable list.
54. (new) The calculator of claim 51 wherein the conversion means provides an allowance for mortar.
55. (new) The calculator of claim 51 wherein the display means comprises means for displaying a unit of the quantity of face bricks and a unit of the quantity of paver bricks.

56. (new) A calculator for making home improvement calculations comprising:
- (A) input means for allowing a user to enter at least one dimensional number;
and
 - (B) function means for allowing a user to select a 4×8 sheet calculation function;
 - (C) conversion means for converting the dimensional number into a number
representing a quantity of 4×8 sheets, the conversion means being
responsive to selection means; and
 - (D) display means for displaying the quantity of 4×8 sheets.
57. (new) The calculator of claim 56 wherein the dimensional number comprises a
linear dimension.
58. (new) The calculator of claim 57 further comprising a square function for
calculating an area from the linear dimension.
59. (new) The calculator of claim 56 wherein the display means comprises unit means
for displaying a unit of the quantity of 4×8 sheets.

60. (new) A calculator for making home improvement calculations comprising:
- (A) input means for allowing a user to enter at least one dimensional number;
 - (B) function means for allowing a user to select a paint calculation function;
 - (C) conversion means for converting the dimensional number into a number representing a quantity of paint, the conversion means being responsive to the function means; and
 - (D) display means for displaying the quantity of paint.
61. (new) The calculator of claim 60 wherein the display means comprises unit means for displaying a unit of the quantity of paint.
62. (new) The calculator of claim 61 wherein the conversion means may be reversed and a quantity of paint may be converted to a dimensional number and the display means displays the dimensional number.

63. (new) A calculator for making home improvement calculations comprising:
- (A) input means for allowing a user to enter at least one dimensional number;
 - (B) function means for allowing a user to select a wallpaper calculation function;
 - (C) conversion means for converting the dimensional number into quantity of wallpaper, the conversion means being responsive to the function means;
and
 - (D) display means for displaying the quantity of wallpaper.
64. (new) The calculator of claim 63 wherein converting the dimensional number into a number of rolls of wallpaper comprises using a conversion factor.
65. (new) The calculator of claim 63 wherein the display means comprises means for displaying a unit of the quantity of wallpaper.
66. (new) The calculator of claim 65 wherein the unit of the quantity of wallpaper comprises rolls.

67. (new) A calculator for making home improvement calculations comprising:
- (A) input means for allowing a user to enter at least one dimensional number;
 - (B) function means for allowing a user to select a stud calculation function;
 - (C) conversion means responsive to the function means for converting the dimensional number into a number representing a quantity of studs, the conversion means being responsive to the function means; and
 - (D) display means for displaying the quantity of studs.
68. (new) The calculator of claim 67 wherein the dimensional number comprises a linear dimension.
69. (new) The calculator of claim 67 wherein the dimensional number comprises an area dimension.
70. (new) The calculator of claim 67 wherein the display means comprises means for displaying a unit of the quantity of studs.

71. (new) A calculator for making home improvement calculations comprising:
- (A) input means for allowing a user to provide a dimensional number;
 - (B) function means for allowing a user to select a roofing bundle calculation function;
 - (C) calculation means for calculating a quantity of roof bundles from the dimensional number, the calculation means being initiated by the function means; and
 - (D) display means for displaying the quantity of roofing bundles.
72. (new) The calculator of claim 71 wherein the dimensional number comprises an area dimension.
73. (new) The calculator of claim 71 wherein the dimensional number comprises means for displaying a unit of the quantity of roofing bundles.

74. (new) A home improvement calculator, comprising:
- (A) a plurality of numeric keys configured to allow a user to enter at least one dimensional number;
 - (B) at least one function key configured to allow a user to select a gravel conversion function;
 - (C) at least one display configured to display information; and
 - (D) at least one processor in communication with the numeric keys, the function key and the display, the processor being configured to detect entry of the dimensional number and activation of the function key, perform a calculation to convert the dimensional number into a quantity of gravel and cause the display to display the quantities.
75. (new) The calculator of claim 74 wherein the processor is further configured to detect entry of a quantity and activation of the function key and perform a calculation to convert the quantity to a dimensional number.
76. (new) The calculator of claim 74 further comprising at least one dimensional key in communication with the processor, the processor being further configured to label the dimensional number as squared when the dimensional key is activated twice or cubed when the dimensional key is activated three times.
77. (new) The calculator of claim 74 wherein the display is configured to display a unit of the quantity.

78. (new) The calculator of claim 74 wherein the dimensional number comprises an area dimension.
79. (new) The calculator of claim 74 wherein the dimensional number comprises a linear dimension.
80. (new) The calculator of claim 74 wherein calculation uses either a pre-set or user defined conversion factor.
81. (new) The calculator of claim 74 wherein the calculation uses a weight to volume ratio chosen from a user selectable scrollable list.

82. (new) A home improvement calculator, comprising:
- (A) a plurality of numeric keys configured to allow a user to enter at least one dimensional number;
 - (B) at least one function key configured to allow a user to select a cement conversion function;
 - (C) at least one display configured to display information; and
 - (D) at least one processor in communication with the numeric keys, the function key and the display, the processor being configured to detect entry of the dimensional number and activation of the function key, perform a calculation to convert the dimensional number into a quantity of cement and cause the display to display the quantities.
83. (new) The calculator of claim 82 wherein the processor is further configured to detect entry of a quantity and activation of the function key and perform a calculation to convert the quantity to a dimensional number.
84. (new) The calculator of claim 82 further comprising at least one dimensional key in communication with the processor, the processor being further configured to label the dimensional number as squared when the dimensional key is activated twice or cubed when the dimensional key is activated three times.
85. (new) The calculator of claim 82 wherein the display is configured to display a unit of the quantity.

86. (new) The calculator of claim 82 wherein the dimensional number comprises an area dimension.
87. (new) The calculator of claim 82 wherein the dimensional number comprises a linear dimension.
88. (new) The calculator of claim 82 wherein calculation uses either a pre-set or user defined conversion factor.
89. (new) The calculator of claim 82 wherein the calculation provides at least one of a quantity of sand, a quantity of aggregate and a quantity of water.
90. (new) The calculator of claim 89 wherein the display displays the at least one of a quantity of sand, a quantity of aggregate and a quantity of water in a scrollable list.

91. (new) A home improvement calculator, comprising:
- (A) a plurality of numeric keys configured to allow a user to enter at least one dimensional number;
 - (B) at least one function key configured to allow a user to select a tile conversion function;
 - (C) at least one display configured to display information; and
 - (D) at least one processor in communication with the numeric keys, the function key and the display, the processor being configured to detect entry of the dimensional number and activation of the function key, perform a calculation to convert the dimensional number into a quantity of tiles and cause the display to display the quantities.
92. (new) The calculator of claim 91 wherein the processor is further configured to detect entry of a quantity and activation of the function key and perform a calculation to convert the quantity to a dimensional number.
93. (new) The calculator of claim 91 further comprising at least one dimensional key in communication with the processor, the processor being further configured to label the dimensional number as squared when the dimensional key is activated twice or cubed when the dimensional key is activated three times.
94. (new) The calculator of claim 91 wherein the display is configured to display a unit of the quantity.

95. (new) The calculator of claim 91 wherein the dimensional number comprises an area dimension.
96. (new) The calculator of claim 91 wherein the dimensional number comprises a linear dimension.
97. (new) The calculator of claim 91 wherein the calculation is based at least in part on a scrollable list of tile sizes.
98. (new) The calculator of claim 91 wherein the display provides a scrollable list of quantities of tiles dependent on sizes.
99. (new) The calculator of claim 91 wherein the calculation provides an allowance for grout.

100. (new) A home improvement calculator, comprising:
- (A) a plurality of numeric keys configured to allow a user to enter at least one dimensional number;
 - (B) at least one function key configured to allow a user to select a brick conversion function;
 - (C) at least one display configured to display information; and
 - (D) at least one processor in communication with the numeric keys, the function key and the display, the processor being configured to detect entry of the dimensional number and activation of the function key, perform a calculation to convert the dimensional number into a quantity of face bricks and quantity of paver bricks and cause the display to display the quantities.
101. (new) The calculator of claim 100 wherein the processor is further configured to detect entry of a quantity and activation of the function key and perform a calculation to convert the quantity to a dimensional number.
102. (new) The calculator of claim 100 further comprising at least one dimensional key in communication with the processor, the processor being further configured to label the dimensional number as squared when the dimensional key is activated twice or cubed when the dimensional key is activated three times.
103. (new) The calculator of claim 100 wherein the display is configured to display a unit of the quantity.

104. (new) The calculator of claim 100 wherein the dimensional number comprises an area dimension.
105. (new) The calculator of claim 100 wherein the dimensional number comprises a linear dimension.
106. (new) The calculator of claim 100 wherein the display displays the quantity of face bricks and the quantity of paver bricks as a scrollable list.
107. (new) The calculator of claim 100 wherein the calculation provides an allowance for mortar.

108. (new) A home improvement calculator, comprising:
- (A) a plurality of numeric keys configured to allow a user to enter at least one dimensional number;
 - (B) at least one function key configured to allow a user to select a paint conversion function;
 - (C) at least one display configured to display information; and
 - (D) at least one processor in communication with the numeric keys, the function key and the display, the processor being configured to detect entry of the dimensional number and activation of the function key, perform a calculation to convert the dimensional number into a quantity of paint and cause the display to display the quantity.
109. (new) The calculator of claim 108 wherein the processor is further configured to detect entry of a quantity and activation of the function key and perform a calculation to convert the quantity to a dimensional number.
110. (new) The calculator of claim 108 further comprising at least one dimensional key in communication with the processor, the processor being further configured to label the dimensional number as squared when the dimensional key is activated twice or cubed when the dimensional key is activated three times.
111. (new) The calculator of claim 108 wherein the display is configured to display a unit of the quantity.

112. (new) The calculator of claim 108 wherein the dimensional number comprises an area dimension.
113. (new) The calculator of claim 108 wherein the dimensional number comprises a linear dimension.

114. (new) A home improvement calculator, comprising:
- (A) a plurality of numeric keys configured to allow a user to enter at least one dimensional number;
 - (B) at least one function key configured to allow a user to select a wallpaper conversion function;
 - (C) at least one display configured to display information; and
 - (D) at least one processor in communication with the numeric keys, the function key and the display, the processor being configured to detect entry of the dimensional number and activation of the function key, perform a calculation to convert the dimensional number into a quantity of wallpaper and cause the display to display the quantity.
115. (new) The calculator of claim 114 wherein the processor is further configured to detect entry of a quantity and activation of the function key and perform a calculation to convert the quantity to a dimensional number.
116. (new) The calculator of claim 114 further comprising at least one dimensional key in communication with the processor, the processor being further configured to label the dimensional number as squared when the dimensional key is activated twice or cubed when the dimensional key is activated three times.
117. (new) The calculator of claim 114 wherein the display is configured to display a unit of the quantity.

118. [new] The calculator of claim 114 wherein the calculation is based on a stored value representing a coverage of one roll of wallpaper.

119. (new) A home improvement calculator, comprising:
- (A) a plurality of numeric keys configured to allow a user to enter at least one dimensional number;
 - (B) at least one function key configured to allow a user to select a stud conversion function;
 - (C) at least one display configured to display information; and
 - (D) at least one processor in communication with the numeric keys, the function key and the display, the processor being configured to detect entry of the dimensional number and activation of the function key, perform a calculation to convert the dimensional number into a quantity of studs and cause the display to display the quantity.
120. (new) The calculator of claim 119 wherein the processor is further configured to detect entry of a quantity and activation of the function key and perform a calculation to convert the quantity to a dimensional number.
121. (new) The calculator of claim 119 further comprising at least one dimensional key in communication with the processor, the processor being further configured to label the dimensional number as squared when the dimensional key is activated twice or cubed when the dimensional key is activated three times.
122. (new) The calculator of claim 119 wherein the display is configured to display a unit of the quantity.

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123. (new) A home improvement calculator, comprising:
- (A) a plurality of numeric keys configured to allow a user to enter at least one dimensional number;
 - (B) at least one function key configured to allow a user to select a roofing conversion function;
 - (C) at least one display configured to display information; and
 - (D) at least one processor in communication with the numeric keys, the function key and the display, the processor being configured to detect entry of the dimensional number and activation of the function key, perform a calculation to convert the dimensional number into a quantity of roofing bundles and cause the display to display the quantity.
124. (new) The calculator of claim 123 wherein the processor is further configured to detect entry of a quantity and activation of the function key and perform a calculation to convert the quantity to a dimensional number.
125. (new) The calculator of claim 123 further comprising at least one dimensional key in communication with the processor, the processor being further configured to label the dimensional number as squared when the dimensional key is activated twice or cubed when the dimensional key is activated three times.
126. (new) The calculator of claim 123 wherein the display is configured to display a unit of the quantity.